

## SEQUENCE LISTING

<110> Klinikum der Universitaet Muenchen Grosshadern-Innenstadt  
 <120> Leptin antagonist and method for the quantitative measurement of leptin  
 <130> LM01P002WO  
 <150> DE 103 53 953.4  
 <151> 2003-11-17  
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 <170> PatentIn version 3.1  
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 35 40 45

Ala Thr Gln Asn Val Arg Thr Ala Val Thr Trp Tyr Gln Gln Lys Pro  
 50 55 60

Gly Gln Ser Pro Gln Ala Leu Ile Phe Leu Ala Ser Asn Arg His Thr  
 65 70 75 80

Gly Val Pro Ala Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr  
 85 90 95

Leu Thr Ile Asn Asn Val Lys Ser Glu Asp Leu Ala Asp Tyr Phe Cys  
 100 105 110

Leu Gln His Trp Asn Tyr Pro Leu Thr Phe Gly Ser Gly Thr Lys Leu  
 115 120 125

Glu Ile Lys Arg Ala Asp Ala Ala Pro Thr Val Ser Ile Phe Pro Pro  
 130 135 140

Ser Ser Glu Gln Leu Thr Ser Gly Gly Ala Ser Val Val Cys Phe Leu  
145 150 155 160

Asn Asn Phe Tyr Pro Lys Asp Ile Asn Val Lys Trp Lys Ile Asp Gly  
165 170 175

Ser Glu Arg Gln Asn Gly Val Leu Asn Ser Trp Thr Asp Gln Asp Ser  
180 185 190

Lys Asp Ser Thr Tyr Ser Met Ser Ser Thr Leu Thr Leu Thr Lys Asp  
195 200 205

Glu Tyr Glu Arg His Asn Ser Tyr Thr Cys Glu Ala Thr His Lys Thr  
210 215 220

Ser Thr Ser Pro Ile Val Lys Ser Phe Asn Arg Gly Glu Cys Xaa Xaa  
225 230 235 240

Ser Arg Val Lys Arg Xaa Gln Ser Xaa Gly Gly Pro Gly Thr Pro Ile  
245 250 255

Arg Pro Ile Gly Xaa Pro Tyr Tyr Asn Ser Leu Gly Gly Gly Phe Gln  
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tta ctc gct gcc caa cca gcc atg gcc gag ctc gtg atg acc cag tct 95  
Leu Leu Ala Ala Gln Pro Ala Met Ala Glu Leu Val Met Thr Gln Ser  
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cca aaa ttc atg tcc aca tca ata gga gac agg gtc aat atc acc tgc 143  
Pro Lys Phe Met Ser Thr Ser Ile Gly Asp Arg Val Asn Ile Thr Cys  
35 40 45

aag gcc act cag aat gtt cgt act gct gtt acc tgg tat caa cag aaa	191
Lys Ala Thr Gln Asn Val Arg Thr Ala Val Thr Trp Tyr Gln Gln Lys	
50 55 60	
cca ggg cag tct cct caa gca ctg att ttc ttg gca tcc aac cgg cac	239
Pro Gly Gln Ser Pro Gln Ala Leu Ile Phe Leu Ala Ser Asn Arg His	
65 70 75	
act ggt gtc cct gct cga ttc aca ggc agt gga tct ggg aca gat ttc	287
Thr Gly Val Pro Ala Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe	
80 85 90 95	
act ctc acc att aac aat gtg aaa tct gaa gac ctg gca gat tat ttc	335
Thr Leu Thr Ile Asn Asn Val Lys Ser Glu Asp Leu Ala Asp Tyr Phe	
100 105 110	
tgt cta caa cat tgg aat tat cct ctc acg ttc ggc tcg ggg aca aag	383
Cys Leu Gln His Trp Asn Tyr Pro Leu Thr Phe Gly Ser Gly Thr Lys	
115 120 125	
ttg gaa ata aaa cgg gct gat gct gca cca act gta tcc atc ttc cca	431
Leu Glu Ile Lys Arg Ala Asp Ala Ala Pro Thr Val Ser Ile Phe Pro	
130 135 140	
cca tcc agt gag cag tta aca tct gga ggt gcc tca gtc gtg tgc ttc	479
Pro Ser Ser Glu Gln Leu Thr Ser Gly Gly Ala Ser Val Val Cys Phe	
145 150 155	
ttg aac aac ttc tac ccc aaa gac atc aat gtc aag tgg aag att gat	527
Leu Asn Asn Phe Tyr Pro Lys Asp Ile Asn Val Lys Trp Lys Ile Asp	
160 165 170 175	
ggc agt gaa cga caa aat ggc gtc ctg aac agt tgg act gat cag gac	575
Gly Ser Glu Arg Gln Asn Gly Val Leu Asn Ser Trp Thr Asp Gln Asp	
180 185 190	
agc aaa gac agc acc tac agc atg agc agc acc ctc acg ttg acc aag	623
Ser Lys Asp Ser Thr Tyr Ser Met Ser Ser Thr Leu Thr Leu Thr Lys	
195 200 205	
gac gag tat gaa cga cat aac agc tat acc tgt gag gcc act cac aag	671
Asp Glu Tyr Glu Arg His Asn Ser Tyr Thr Cys Glu Ala Thr His Lys	
210 215 220	
aca tca act tca ccc att gtc aag agc ttc aac agg gga gag tgt tag	719
Thr Ser Thr Ser Pro Ile Val Lys Ser Phe Asn Arg Gly Glu Cys	
225 230 235	
taa tct aga gtt aag cgg ccg caa tcg agg ggg ggc ccg gta ccc caa	767
Ser Arg Val Lys Arg Pro Gln Ser Arg Gly Gly Pro Val Pro Gln	
240 245 250	
ttc gcc cta tag ggg ngc cgt att aca att cac tgg gcg gcg gtt ttc	815
Phe Ala Leu Gly Xaa Arg Ile Thr Ile His Trp Ala Ala Val Phe	
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Xaa	

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Leu Leu Ala Ala Gln Pro Ala Met Ala Gln Val Lys Leu Leu Glu Ser  
 35 40 45

Gly Pro Gly Leu Val Ala Pro Ser Glu Ser Leu Ser Ile Thr Cys Thr  
 50 55 60

Ile Ser Gly Phe Ser Leu Thr Asp Asp Gly Val Ser Trp Ile Arg Gln  
 65 70 75 80

Pro Pro Gly Lys Gly Leu Glu Trp Leu Gly Val Ile Trp Gly Gly Gly  
 85 90 95

Ser Thr Tyr Phe Asn Ser Leu Phe Lys Ser Arg Leu Ser Ile Thr Arg  
 100 105 110

Asp Asn Ser Lys Ser Gln Val Phe Leu Glu Met Asp Ser Leu Gln Thr  
 115 120 125

Asp Asp Thr Ala Met Tyr Tyr Cys Ala Lys His Asp Gly His Glu Thr  
 130 135 140

Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ser Lys  
 145 150 155 160

Thr Thr Pro Pro Ser Val Tyr Pro Leu Ala Pro Gly Ser Ala Ala Gln  
 165 170 175

Thr Asn Ser Met Val Thr Leu Gly Cys Leu Val Lys Gly Tyr Phe Pro  
 180 185 190

Glu Pro Val Thr Val Thr Trp Asn Ser Gly Ser Leu Ser Ser Gly Val  
 195 200 205

His Thr Phe Pro Ala Val Leu Gln Ser Asp Leu Tyr Thr Leu Ser Ser  
 210 215 220

Ser Val Thr Val Pro Ser Ser Thr Trp Pro Ser Glu Thr Val Thr Cys  
 225 230 235 240

Asn Val Ala His Pro Ala Ser Ser Thr Lys Val Asp Lys Lys Ile Val  
 245 250 255

Pro Arg Asp Cys Thr Ser His His His His His His Xaa Ala Ser Leu  
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Val Val Ala Val Ala Leu His Ser Phe Val Xaa Ile Lys Ala Asn Arg  
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Arg Pro Ala Xaa  
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 gtc ata atg aaa tac ctt ttn gcc tac ggg cca gcc gct gga ttg tta 96  
 Val Ile Met Lys Tyr Leu Xaa Ala Tyr Gly Pro Ala Ala Gly Leu Leu  
 20 25 30  
 tta ctc gct gcc caa cca gcc atg gcc cag gtg aaa ctg ctc gag tca 144  
 Leu Leu Ala Ala Gln Pro Ala Met Ala Gln Val Lys Leu Leu Glu Ser  
 35 40 45  
 gga cct ggc ctg gtg gcg ccc tca gag agc ctg tcc atc aca tgc act 192  
 Gly Pro Gly Leu Val Ala Pro Ser Glu Ser Leu Ser Ile Thr Cys Thr  
 50 55 60  
 atc tca ggg ttc tca tta acc gac gat ggt gta agc tgg att cgg cag 240  
 Ile Ser Gly Phe Ser Leu Thr Asp Asp Gly Val Ser Trp Ile Arg Gln  
 65 70 75 80  
 cct cca gga aag ggt ctg gag tgg ctg gga gta ata tgg ggt ggt gga 288

Pro	Pro	Gly	Lys	Gly 85	Leu	Glu	Trp	Leu	Gly 90	Val	Ile	Trp	Gly	Gly 95	Gly	
agc	aca	tac	ttt	aat	tca	ctt	ttc	aaa	tcc	aga	ctg	agc	atc	acc	agg	336
Ser	Thr	Tyr	Phe	Asn	Ser	Leu	Phe	Lys	Ser	Arg	Leu	Ser	Ile	Thr	Arg	
			100					105					110			
gac	aac	tct	aag	agc	caa	gtt	ttc	tta	gaa	atg	gac	agt	cta	caa	act	384
Asp	Asn	Ser	Lys	Ser	Gln	Val	Phe	Leu	Glu	Met	Asp	Ser	Leu	Gln	Thr	
			115				120					125				
gat	gac	aca	gcc	atg	tac	tac	tgc	gcc	aaa	cat	gac	gga	cac	gag	act	432
Asp	Asp	Thr	Ala	Met	Tyr	Tyr	Cys	Ala	Lys	His	Asp	Gly	His	Glu	Thr	
			130				135					140				
atg	gac	tat	tgg	ggc	caa	gga	acc	tca	gtc	acc	gtc	tcc	tca	tcc	aaa	480
Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Ser	Val	Thr	Val	Ser	Ser	Ser	Lys	
					150					155					160	
acg	aca	ccc	cca	tct	gtc	tat	cca	ctg	gcc	cct	gga	tct	gct	gcc	caa	528
Thr	Thr	Pro	Pro	Ser	Val	Tyr	Pro	Leu	Ala	Pro	Gly	Ser	Ala	Ala	Gln	
				165					170					175		
act	aac	tcc	atg	gtg	acc	ctg	gga	tgc	ctg	gtc	aag	ggc	tat	ttc	cct	576
Thr	Asn	Ser	Met	Val	Thr	Leu	Gly	Cys	Leu	Val	Lys	Gly	Tyr	Phe	Pro	
			180					185					190			
gag	cca	gtg	aca	gtg	acc	tgg	aac	tct	gga	tcc	ctg	tcc	agc	ggc	gtg	624
Glu	Pro	Val	Thr	Val	Thr	Trp	Asn	Ser	Gly	Ser	Leu	Ser	Ser	Gly	Val	
			195				200					205				
cac	acc	ttc	cca	gct	gtc	ctg	cag	tct	gac	ctc	tac	act	ctg	agc	agc	672
His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Asp	Leu	Tyr	Thr	Leu	Ser	Ser	
			210				215					220				
tca	gtg	act	gtc	ccc	tcc	agc	acc	tgg	ccc	agc	gag	acc	gtc	acc	tgc	720
Ser	Val	Thr	Val	Pro	Ser	Ser	Thr	Trp	Pro	Ser	Glu	Thr	Val	Thr	Cys	
					230					235					240	
aac	gtt	gcc	cac	ccg	gcc	agc	agc	acc	aag	gtg	gac	aag	aaa	att	gtg	768
Asn	Val	Ala	His	Pro	Ala	Ser	Ser	Thr	Lys	Val	Asp	Lys	Lys	Ile	Val	
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ccc	agg	gat	tgt	act	agt	cat	cat	cat	cat	cat	cat	taa	gct	agc	cta	816
Pro	Arg	Asp	Cys	Thr	Ser	His	His	His	His	His	His		Ala	Ser	Leu	
			260					265						270		
gtg	gtg	gcg	gtg	gct	ctc	cat	tcg	ttt	gtg	ang	ata	aag	gcc	aat	cgn	864
Val	Val	Ala	Val	Ala	Leu	His	Ser	Phe	Val	Xaa	Ile	Lys	Ala	Asn	Arg	
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aga	cct	gcg	cna													876
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Gln Glu Ser Gly Thr Glu Val Val Lys Pro Gly Ala Ser Val Lys Leu		
10 15 20		
tcc tgc aag gct tct ggc tac atc ttc aca agt tat gat ata gac tgg	151	
Ser Cys Lys Ala Ser Gly Tyr Ile Phe Thr Ser Tyr Asp Ile Asp Trp		
25 30 35		
gtg agg cag acg cct gaa cag gga ctt gag tgg att gga tgg att ttt	199	
Val Arg Gln Thr Pro Glu Gln Gly Leu Glu Trp Ile Gly Trp Ile Phe		
40 45 50		
cct gga gag ggg agt act gaa tac aat gag aag ttc aag ggc agg gcc	247	
Pro Gly Glu Gly Ser Thr Glu Tyr Asn Glu Lys Phe Lys Gly Arg Ala		
55 60 65 70		
aca ctg agt gta gac aag tcc tcc agc aca gcc tat atg gag ctc act	295	
Thr Leu Ser Val Asp Lys Ser Ser Ser Thr Ala Tyr Met Glu Leu Thr		
75 80 85		
agg ctg aca tct gag gac tct gct gtc tat ttc tgt gct aga ggg gac	343	
Arg Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys Ala Arg Gly Asp		
90 95 100		
tac tat agg cgc tac ttt gac ttg tgg ggc caa ggg acc acg gtc acc	391	
Tyr Tyr Arg Arg Tyr Phe Asp Leu Trp Gly Gln Gly Thr Thr Val Thr		
105 110 115		
gtc tcc tca tgt gga ggc ggt tca ggc gga ggt ggc tct ggc ggt ggc	439	
Val Ser Ser Cys Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly		
120 125 130		
gga tct gac att gag ctc acc cag tct cca gca atc atg tct gca tct	487	
Gly Ser Asp Ile Glu Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser		
135 140 145 150		
cca ggg gag agg gtc acc atg acc tgc agt gcc agc tca agt ata cgt	535	
Pro Gly Glu Arg Val Thr Met Thr Cys Ser Ala Ser Ser Ser Ile Arg		
155 160 165		
tac ata tat tgg tac caa cag aag cct gga tcc tcc ccc aga ctc ctg	583	
Tyr Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Ser Pro Arg Leu Leu		
170 175 180		
att tat gac aca tcc aac gtg gct cct gga gtc cct ttt cgc ttc agt	631	
Ile Tyr Asp Thr Ser Asn Val Ala Pro Gly Val Pro Phe Arg Phe Ser		
185 190 195		

8/12

ggc agt ggg tct ggg acc tct tat tct ctc aca atc aac cga atg gag 679  
 Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Asn Arg Met Glu  
 200 205 210

gct gag gat gct gcc act tat tac tgc cag gag tgg agt ggt tat cct 727  
 Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Glu Trp Ser Gly Tyr Pro  
 215 220 225 230

ctc acg ttc ggc tcg ggc acc aag cgg gaa atc aaa cgg gcg gcc gca 775  
 Leu Thr Phe Gly Ser Gly Thr Lys Arg Glu Ile Lys Arg Ala Ala Ala  
 235 240 245

ggt gcg ccg gtg ccg tat ccg gat ccg ctg gaa ccg cgt gccgcataga 824  
 Gly Ala Pro Val Pro Tyr Pro Asp Pro Leu Glu Pro Arg  
 250 255

ctgttgaa 832

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 35 40 45

Trp Ile Gly Trp Ile Phe Pro Gly Glu Gly Ser Thr Glu Tyr Asn Glu  
 50 55 60

Lys Phe Lys Gly Arg Ala Thr Leu Ser Val Asp Lys Ser Ser Ser Thr  
 65 70 75 80

Ala Tyr Met Glu Leu Thr Arg Leu Thr Ser Glu Asp Ser Ala Val Tyr  
 85 90 95

Phe Cys Ala Arg Gly Asp Tyr Tyr Arg Arg Tyr Phe Asp Leu Trp Gly  
 100 105 110

Gln Gly Thr Thr Val Thr Val Ser Ser Cys Gly Gly Gly Ser Gly Gly  
 115 120 125

9/12

Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Glu Leu Thr Gln Ser Pro  
 130 135 140

Ala Ile Met Ser Ala Ser Pro Gly Glu Arg Val Thr Met Thr Cys Ser  
 145 150 155 160

Ala Ser Ser Ser Ile Arg Tyr Ile Tyr Trp Tyr Gln Gln Lys Pro Gly  
 165 170 175

Ser Ser Pro Arg Leu Leu Ile Tyr Asp Thr Ser Asn Val Ala Pro Gly  
 180 185 190

Val Pro Phe Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu  
 195 200 205

Thr Ile Asn Arg Met Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln  
 210 215 220

Glu Trp Ser Gly Tyr Pro Leu Thr Phe Gly Ser Gly Thr Lys Arg Glu  
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Ile Lys Arg Ala Ala Ala Gly Ala Pro Val Pro Tyr Pro Asp Pro Leu  
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Glu Pro Arg

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 gtgtaagctg gattcggcag cctccaggaa agggctctgga gtggctggga gtaatatggg 180  
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 actctaagag ccaagttttc ttagaaatgg acagtctaca aactgatgac acagccatgt 300  
 actactgcgc caaacatgac ggacacgaga ctatggacta ttgggggtcaa ggaacctcag 360  
 tcaccgtctc ctcatccaaa acgacacccc catctgtcta tccactggcc cctggatctg 420  
 ctgccc aaac taactccatg gtgaccctgg gatgcctggt caagggctat ttccctgagc 480

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ccagcgagac cgtcacctgc aacgttgccc acccggccag cagcaccaag gtggacaaga      660
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gcggagggtc tggtaggcgga gggtccgaat tcctcgaggt gcccatccaa aaagtccaag      780
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agtcagtctc ctccaaacag aaagtcaccg gtttggactt cattcctggg ctccacccca      900
tcctgacctt atccaagatg gaccagacac tggcagtcta ccaacagatc ctcaccagta      960
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acagcctggg ggggtgtcctg gaagcttcag gctactccac agaggtgggtg gccctgagca     1140
ggctgcaggg gtctctgcag gacatgctgt ggcagctgga cctcagccct ggggtgacta     1200
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Asp Asp Gly Val Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
35              40              45

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Trp Leu Gly Val Ile Trp Gly Gly Gly Ser Thr Tyr Phe Asn Ser Leu
50              55              60

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Phe Lys Ser Arg Leu Ser Ile Thr Arg Asp Asn Ser Lys Ser Gln Val
65              70              75              80

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Phe Leu Glu Met Asp Ser Leu Gln Thr Asp Asp Thr Ala Met Tyr Tyr
          85              90              95

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Cys Ala Lys His Asp Gly His Glu Thr Met Asp Tyr Trp Gly Gln Gly  
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Thr Ser Val Thr Val Ser Ser Ser Lys Thr Thr Pro Pro Ser Val Tyr  
 115 120 125

Pro Leu Ala Pro Gly Ser Ala Ala Gln Thr Asn Ser Met Val Thr Leu  
 130 135 140

Gly Cys Leu Val Lys Gly Tyr Phe Pro Glu Pro Val Thr Val Thr Trp  
 145 150 155 160

Asn Ser Gly Ser Leu Ser Ser Gly Val His Thr Phe Pro Ala Val Leu  
 165 170 175

Gln Ser Asp Leu Tyr Thr Leu Ser Ser Ser Val Thr Val Pro Ser Ser  
 180 185 190

Thr Trp Pro Ser Glu Thr Val Thr Cys Asn Val Ala His Pro Ala Ser  
 195 200 205

Ser Thr Lys Val Asp Lys Lys Ile Val Pro Arg Asp Cys Thr Ser Gly  
 210 215 220

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly  
 225 230 235 240

Gly Gly Ser Glu Phe Leu Glu Val Pro Ile Gln Lys Val Gln Asp Asp  
 245 250 255

Thr Lys Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile Ser  
 260 265 270

His Thr Gln Ser Val Ser Ser Lys Gln Lys Val Thr Gly Leu Asp Phe  
 275 280 285

Ile Pro Gly Leu His Pro Ile Leu Thr Leu Ser Lys Met Asp Gln Thr  
 290 295 300

Leu Ala Val Tyr Gln Gln Ile Leu Thr Ser Met Pro Ser Arg Asn Val  
 305 310 315 320

Ile Gln Ile Ser Asn Asp Leu Glu Asn Leu Arg Asp Leu Leu His Val  
 325 330 335

Leu Ala Phe Ser Lys Ser Cys His Leu Pro Trp Ala Ser Gly Leu Glu

340

345

350

Thr Leu Asp Ser Leu Gly Gly Val Leu Glu Ala Ser Gly Tyr Ser Thr  
355 360 365

Glu Val Val Ala Leu Ser Arg Leu Gln Gly Ser Leu Gln Asp Met Leu  
370 375 380

Trp Gln Leu Asp Leu Ser Pro Gly Cys Thr Ser His His His His His  
385 390 395 400

His